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# Sugar Interaction Metals In Aqueous Solution

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## **Metals**

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## **Metals In Aqueous**

In this article, mid-infrared Fourier transform (Mid-FT-IR) and carbon thirteen nuclear magnetic resonance (<sup>13</sup>C NMR) spectroscopy have been used to determine possible interactions between sucrose and various alkali or alkaline earth metals in aqueous solution. In the presence of these metals, significant shifts in the absorption bands of sucrose were noted by mid-FT-IR coupled with principal component analysis (PCA).

## **Sugar interaction with metals in aqueous solution ...**

Sugar Interaction Metals In Aqueous Solution

Interactions between sugars and alkaline earth metal halides, such as MgCl<sub>2</sub> and calcium chloride (CaCl<sub>2</sub>), have been reported in a number of studies where a

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sugar-cation complex can form, the... (PDF) Sugar Interaction with Metals in Aqueous Solution ...

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<sup>13</sup>C NMR analysis showed that the carbon atoms of sucrose undergo shielding or deshielding in the presence of metal ions in aqueous solutions. Two factors were invoked to account for the variation of chemical shifts: the rupture of hydrogen bonds due to hydration of the metal ion and the possible coordination of the metal ion to the oxygen atoms of sucrose.

## **Sugar Interaction with Metals in Aqueous Solution ...**

Interactions between sugars and alkaline earth metal halides, such as MgCl<sub>2</sub> and calcium chloride (CaCl<sub>2</sub>), have been reported in a number of studies where a sugar-cation complex can form, the...

## **(PDF) Sugar Interaction with Metals in Aqueous Solution ...**

Factorial maps were established and the spectral patterns obtained show that these interactions vary according to the nature of the metal ion. <sup>13</sup>C NMR analysis showed that the carbon atoms of sucrose undergo shielding or deshielding in the presence of metal ions in aqueous solutions.

## **OSA | Sugar Interaction with Metals in Aqueous Solution ...**

Sugar Interaction with Metals in Aqueous Solution: Indirect Determination from Infrared and Direct

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Determination from Nuclear Magnetic Resonance Spectroscopy

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## **Sugar Interaction Metals In Aqueous Solution**

A metal ion in aqueous solution or aqua ion is a cation, dissolved in water, of chemical formula  $[M(H_2O)_n]^{z+}$ . The solvation number,  $n$ , determined by a variety of experimental methods is 4 for  $Li^+$  and  $Be^{2+}$  and 6 for elements in periods 3 and 4 of the periodic table. Lanthanide and actinide aqua ions have a solvation number of 8 or 9. The strength of the bonds between the metal ion and ...

## **Metal ions in aqueous solution - Wikipedia**

Fig. 6 indicates the metal uptake isotherms for Pb, Cu and Zn ions plotted against final metal concentration  $C_f$  in aqueous solutions. The finding from this figure, particularly with regard to our maximum value of uptake of 1103, 860 and 722  $mg\ g^{-1}$  for Pb, Cu and Zn, respectively, lead us to believe polysaccharide produced by *B. firmus* MS-102 is an excellent adsorbent compared to M ...

## **Removal of metal ions from aqueous solution by**

...

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The interactions of TI + with sodium salts of cytidine-5'-monophosphate (5'-CMP), thymidine-5'-monophosphate (5'-TMP), 2-deoxyadenosine-5'-monophosphate (5'-dGMP) in ratios 1 and 2 have been studied in neutral pH. The solid complexes were isolated and characterized by Fourier transform infrared (FTIR) and <sup>1</sup>H-NMR spectroscopy. In the TI 2-CMP, TI + binds indirectly (through H<sub>2</sub>O ...

### **Interaction of TI+ with mononucleotides: metal ion binding ...**

Sugar Interaction Metals In Aqueous Sugar Interaction with Metals in Aqueous Solution: ... The sites of metal-sugar interaction appear to involve primarily the C1 (C=O) and C6 (CH<sub>2</sub>OH) ends of the gluconate chain. (PDF) Sugar Interaction with Metals in Aqueous Solution ...

### **Sugar Interaction Metals In Aqueous Solution**

In this paper, a ternary aqueous mixture of sucrose and two metal ions (Mg<sup>2+</sup> and K<sup>+</sup>) has been examined by mid-infrared spectroscopy coupled with principal component analysis (PCA) and the partial l...

### **Study of the Interactions between Sucrose and Metal Ions ...**

Sugar Interaction Metals In Aqueous Solution Interactions between sugars and alkaline earth metal halides, such as MgCl<sub>2</sub> and calcium chloride (CaCl<sub>2</sub>), have been reported in a number of studies where a sugar-cation complex can form, the... (PDF) Sugar Interaction with Metals in Aqueous Solution ...

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## **Sugar Interaction Metals In Aqueous Solution**

Rahul Sarma, Sandip Paul, The effect of aqueous solutions of trimethylamine- N -oxide on pressure induced modifications of hydrophobic interactions , The Journal of Chemical Physics, 10.1063/1.4748101, 137, 9, (094502), (2012).

## **Trehalose-protein interaction in aqueous solution - Lins ...**

The mechanism of exchange was studied using R2 with increasing inter pulse delay of 0.05–2.0 ms in aqueous solutions of 10%, 20% and 35% (w/v) of the above sugar solutions.

## **Proton Magnetic Resonance Relaxation Studies In Aqueous ...**

@article{osti\_1702750, title = {Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution}, author = {Yabushita, Mizuho and Papa, Gabriella and Li, Peng and Fukuoka, Atsushi and Farha, Omar K. and Simmons, Blake A. and ...

## **Effect of ionic liquid on sugar-aromatic separation ...**

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Effect of metal ion hydration on the interaction between sodium carboxylates and aluminum(III) or chromium(III) ions in aqueous solution Langmuir. 2012 Jan 10;28(1):168-77. doi: 10.1021/la2034164. Epub 2011 Dec 13. Authors Rui F P Pereira 1 , Maria J Tapia, Artur J M Valente, Hugh D Burrows. Affiliation 1 Department of ...

Volume 32 covers metal ion bonding to phosphate, sugar and nucleobase residues; the ambidentate as well as the stacking properties of nucleotides; kinetic aspects as well as properties of nucleobase and nucleotide analogs; and the oligonucleotides and nucleic acids. It examines electron transfer reactions over a large number of base repairs in DNA, the role of metal ions in ribozymes, ternary metal-nucleic acid base-protein complexes, metal responsive gene regulation, and the structure-activity relationships of anticancer drugs and their action on DNA, including cisplatin and the role of proteins.

Proceedings of the NATO Advanced Study Institute on Metal Speciation in the Environment held in Cesme, Turkey, October 9-20, 1989

Around the World, metal pollution is a major problem. Conventional practices of toxic metal removal can be ineffective and/or expensive, delaying and

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exacerbating the crisis. Those communities dealing with contamination must be aware of the fundamentals advances of microbe-mediated metal removal practices because these methods can be easily used and require less remedial intervention. This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates.

The 9th Jerusalem Symposium was dedicated to the memory of Professor Ernst David Bergmann. An imposing and deeply moving memorial session, chaired by Professor Ephraim Katzir, the President of the State of Israel and a close friend of Professor Bergmann preceded the Symposium itself. During this session, Professor Bergmann's personality, scientific achievements and contributions to the development of his country were described and praised, besides President Katzir, by Professor A. Dvoretzky, President of the Israel Academy of Sciences and Humanities, Professor D. Ginsburg, Dean of the Israel Institute of Technology in Haifa and the author of these lines. May I just quote short extracts from these speeches. President Katzir: "As we open this ninth in the series of symposia initiated in 1967, it is difficult for me as, I am sure, for many of Ernst Bergmann's friends, co-workers and students, to be here without him. He was not only a great scientist and a beloved teacher, he was one of the most important founders of science in this country. To him we owe many institutes and the establishment here of many branches of science. " Professor Dvoretzky: "Ernst Bergmann's greatness did not stem from one component overshadowing all the others. It was a multifaceted greatness consisting of

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the harmonious co~lescing of seemingly contrasting entities into a wonderful unity ••.

Helmut Sigel, Astrid Sigel and Roland K.O. Sigel, in close cooperation with John Wiley & Sons, launch a new Series "Metal Ions in Life Sciences". The philosophy of the Series is based on the one successfully applied to a previous series published by another publisher, but the move from "biological systems" to "life sciences" will open the aims and scope and allow for the publication of books touching on the interface between chemistry, biology, pharmacology, biochemistry and medicine. Volume 2 focuses on the vibrant research area concerning nickel as well as its complexes and their role in Nature. With more than 2,800 references and over 130 illustrations, it is an essential resource for scientists working in the wide range from inorganic biochemistry all the way through to medicine. In 17 stimulating chapters, written by 47 internationally recognized experts, Nickel and Its Surprising Impact in Nature highlights critically the biogeochemistry of nickel, its role in the environment, in plants and cyanobacteria, as well as for the gastric pathogen *Helicobacter pylori*, for gene expression and carcinogenesis. In addition, it covers the complex-forming properties of nickel with amino acids, peptides, phosphates, nucleotides, and nucleic acids. The volume also provides sophisticated insights in the recent progress made in understanding the role of nickel in enzymes such as ureases, hydrogenases, superoxide dismutases, acireductone dioxygenases, acetyl-coenzyme A synthases, carbon monoxide dehydrogenases, methyl-coenzyme M

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reductases...and it reveals the chaperones of nickel metabolism.

Biochemistry of Scandium and Yttrium gathers together existing knowledge about scandium and yttrium from a wide variety of disciplines. Part 1 will present a comparative study of the physical and chemical properties of scandium and yttrium, looking at both their similarities and their differences. (Part 2 will address the biochemical aspects of these two elements, and the various medical and environmental applications.) While these elements are relatively rare in nature, these books will show that they have unusual physical and chemical properties, and a disproportionate number of important applications. Improved analytical techniques have revealed that scandium and yttrium are present throughout living matter, even though only a relatively limited number of species have been analyzed so far. This fact of course has far-ranging implications for biological and environmental concerns. Part 1 also contains a discussion of the interactions of scandium and yttrium with molecules of biological interest, such as organic acids, carbohydrates, proteins, nucleotides, and other biologically active molecules. The major impacts of scandium and yttrium in science, technology, and medicine will be of interest to a wide variety of researchers, including geochemists, inorganic and organic chemists, clinical biochemists, and those specializing in environmental protection. Biochemistry of Scandium and Yttrium, Part 1 and Part 2 will be especially welcome because the last book published on the biochemistry of scandium appeared over 20 years ago, and the only book mentioning the

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biochemistry of yttrium came out in 1990.

This work examines how major food ingredients such as water, salt, hydrocolloids, starches, lipids, proteins, flavours and additives interact with other constituents of food and affect food quality with respect to microstructure, texture, flavour and appearance. The intention is to provide new opportunities for food product development. It considers both real foods and model food systems.

This series presents critical reviews of the present position and future trends in modern chemical research. The short and concise reports on chemistry, each written by the world's renowned experts, are still valid and useful after 5 or 10 years.

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